

Dr Michele Diana MD, Ph.D

- Nationality : Italian
 - Private address: 5, Rue d'Eckbolsheim, 67380 Lingolsheim, France
 - Telephone: +33369964058
 - Mobile : +33651186529
 - E-mail: michelediana@virgilio.it; michele.diana@ircad.fr
-

Professional Experience

- **November 2014 to date** Institute of Image-Guided Surgery, IHU-Strasbourg, France
 - Director of the Research Unit on Endo-Laparoscopic Procedures
 - Coordinator of the IHU and IRCAD Research fellowship programs
- **July 2013 – November 2014** Institute of Image-Guided Surgery, IHU-Strasbourg, France
 - Senior Medical Researcher with expertise in experimental minimally-invasive surgery, interventional endoscopy and interventional radiology
 - Coordinator of the IHU and IRCAD Research fellowship program
- **October 2012 – July 2013** Institute of Image-Guided Surgery, IHU-Strasbourg, France
 - IHU Biodesign program coordinator (I-SIP, IHU-School of Innovation Program), supervised by Prof Lee Swanstrom
- **April 2010 - October 2012** Research Institute Against Digestive System Cancer (IRCAD) & European Institute of Tele-Surgery (EITS), Strasbourg (France)
 - Research Fellowship in Minimally Invasive Surgery (Sponsored by CHUV)
- **October 2006- March 2010** University Hospital of Lausanne (CHUV), Lausanne (Switzerland)
 - General, Emergency and Digestive Surgery Residency
 - Clinical rotations in:
 - Intensive Care Unit (6 months)
 - Emergency Department (1 year)
 - Orthopaedics and Traumatology Department (6 months)
 - Visceral Surgery Department (18 months)
- **April 2006- October 2006** Central Institute of the Valais Hospitals, Sion (Switzerland)
 - Emergency Surgery Residency (6 months)

April 2005- March 2006 Regional Hospital of Neuchâtel, Neuchâtel (Switzerland)

- Digestive Surgery Residency (1 year)
- **1999-2005** Catholic University of the Sacred Heart, Rome (Italy)
 - 6 months residency in General Surgery
 - 2 years internship in Internal Medicine
 - 1 year internship in Gastroenterology
 - 1 year internship in Pathology

Education

- **2016** Doctoral School Life and Health of the University of Strasbourg
 - **PhD in Medical Sciences**

Thesis: Fluorescence-based Enhanced Reality for real-time evaluation of visceral perfusion
- **2013** Practical School of High Studies, Sorbonne University (Paris) and Medical School of Dijon (France)
 - Certificate for Animal Experimentation (Level 1, Responsible for Research Projects)
- **2011** Pierre & Marie Curie University, Paris (France)
 - **University Diploma in Biomedical Engineering** (Score: Very Good)

Thesis: Concept, design and development of a novel minimal invasive magnetic anastomotic device.
- **2010** University of Strasbourg (France)
 - Certificate for Animal Experimentation (Level 2, Authorization to practice on animals)
- **2003** Catholic University of the Sacred Heart, Rome (Italy)
 - **Medical Degree** (Score: Summa cum Laude)

Thesis: The role of impaired intestinal permeability and resident microbiota overgrowth in the passage from Non-Alcoholic Steatosis to Non-Alcoholic Steato-hepatitis.
- **1995** High School Casamari's Abbey College, (Italy)
 - Senior High School specializing in classical studies (Score: 60/60)

Peer-reviewed publications (As per August 2016; H-Index = 20)

- **Diana M**, Schiraldi L, Liu YY, Memeo R, Mutter D, Pessaux P, Marescaux J. High intensity focused ultrasound (HIFU) applied to hepato-bilio-pancreatic and the digestive system-current state of the art and future perspectives. *Hepatobiliary Surg Nutr.* 2016 Aug;5(4):329-44.
- **Diana M**, Liu YY, Pop R, Kong SH, Legnèr A, Beaujeux R, Pessaux P, Soler L, Mutter D, Dallemagne B, Marescaux J. Superselective intra-arterial hepatic injection of indocyanine green (ICG) for fluorescence image-guided segmental positive staining: experimental proof of the concept. *Surg Endosc.* 2016 Aug 5
- **Diana M**, Noll E, Charles AL, Diemunsch P, Geny B, Liu YY, Marchegiani F, Schiraldi L, Agnus V, Lindner V, Swanström L, Dallemagne B, **Marescaux J**. Precision real-time evaluation of bowel perfusion: accuracy of confocal Endomicroscopy assessment of stoma in a controlled hemorrhagic shock model. *Surg Endosc.* 2016 Jun 20.
- Diemunsch PA, Noll E, Pottecher J, **Diana M**, Geny B, Joshi GP. Impact of nitrous oxide on the haemodynamic consequences of venous carbon dioxide embolism: An experimental study. *Eur J Anaesthesiol.* 2016 May;33 (5):356-60.
- Franchini Melani AG, **Diana M**, **Marescaux J**. The quest for precision in transanal total mesorectal excision. *Tech Coloproctol.* 2015 Nov 26
- Noll E, **Diana M**, Diemunsch P. A Multimodal Approach to Prevent Laparoscopic High Peritoneal Air Fraction. *Anesth Analg.* 2015 Nov;121(5):1402.
- **Diana M**, Robinet E, Liu YY, Legnèr A, Kong SH, Schiraldi L, Marchegiani F, Halvax P, Swanstrom L, Dallemagne B, Marescaux J. Confocal Imaging and Tissue-Specific Fluorescent Probes for Real-Time In Vivo Immunohistochemistry. Proof of the Concept in a Gastric Lymph Node Metastasis Model. *Ann Surg Oncol.* 2015 Oct 28.
- Liu YY, Kong SH, **Diana M**, Lègner A, Wu CC, Kameyama N, Dallemagne B, **Marescaux J**. Near-infrared cholecysto-cholangiography with indocyanine green may secure cholecystectomy in difficult clinical situations: proof of the concept in a porcine model. *Surg Endosc.* 2015 Oct 28.
- **Diana M**, Usmaan H, Legnèr A, Yu-Yin L, D'Urso A, Halvax P, Nagao Y, Pessaux P, Marescaux J. Novel laparoscopic narrow band imaging for real-time detection of bile leak during hepatectomy: proof of the concept in a porcine model. *Surg Endosc.* 2015 Oct 20.
- Wu T, Bour G, Durand S, Lindner V, Gosse F, Zona L, Certoux JM, **Diana M**, Baumert TF, **Marescaux J**, Mutter D, Pessaux P, Robinet E. Use of a closed culture system to improve the safety of lentiviral vector production. *Hum Gene Ther Methods.* 2015 Oct 15
- Liu YY, Pop R, **Diana M**, Kong SH, Lègner A, Beaujeux R, **Marescaux J**. Real-time fluorescence angiography by intra-arterial indocyanine green injection to identify obscure gastrointestinal bleeding territory: proof of concept in the porcine model. *Surg Endosc.* 2015 Aug 15.

- **Diana M**, Noll E, Diemunsch P, Moussallieh FM, Namer IJ, Charles AL, Lindner V, Agnus V, Geny B, **Marescaux J**. Metabolism-Guided Bowel Resection: Potential Role and Accuracy of Instant Capillary Lactates to Identify the Optimal Resection Site. *Surg Innov.* 2015 Aug 5. pii: 1553350615598620.
- Umale S, Deck C, Bourdet N, **Diana M**, Soler L, Willinger R. Experimental and finite element analysis for prediction of kidney injury under blunt impact. *J Biomech.* 2015 Jun 26. pii: S0021-9290(15)00348-6. doi: 10.1016/j.jbiomech.2015.06.011.
- Bodin F, **Diana M**, Koutsomanis A, Robert E, **Marescaux J**, Bruant-Rodier C. Porcine model for free-flap breast reconstruction training. *J Plast Reconstr Aesthet Surg.* 2015 Jun 12. pii: S1748-6815(15)00290-9. doi: 10.1016/j.bjps.2015.06.006.
- Kong SH, **Diana M**, Liu YY, Lee HJ, Legner A, Soares R, Swanström L, Dallemande B, Yang HK, **Marescaux J**. Novel method for hybrid endo-laparoscopic full-thickness gastric resection using laparoscopic transgastric suture passer device. *Surg Endosc.* 2015 Jul 7
- **Diana M**, Noll E, Agnus V, Liu YY, Kong SH, Lègner A, Diemunsch P, **Marescaux J**. Reply to Letter: "Enhanced Reality Fluorescence Videography to Assess Bowel Perfusion: The Cybernetic Eye". *Ann Surg.* 2015 May 27.
- Hallet J, Soler L, **Diana M**, Mutter D, Baumert TF, Habersetzer F, **Marescaux J**, Pessaux P. Trans-thoracic minimally invasive liver resection guided by augmented reality. *J Am Coll Surg.* 2015 May;220(5):e55-60. doi: 10.1016/j.jamcollsurg.2014.12.053. Epub 2015 Jan 26.
- **Diana M**, Halvax P, Mertz D, Legner A, Brûlé JM, Robinet E, Mutter D, Pessaux P, **Marescaux J**. Improving Echo-Guided Procedures Using an Ultrasound-CT Image Fusion System. *Surg Innov.* 2015 Jun;22(3):217-22. doi: 10.1177/1553350615577483. Epub 2015 Mar 22
- Chung H, **Diana M**, Liu KH, Katsichtis T, Dallemande B, **Marescaux J**. East Meets West-A Novel Steerable Grasper to Facilitate Gastric Endoscopic Submucosal Dissection (ESD): Randomized Comparative Study in a Porcine Model. *Surg Innov.* 2015 Apr;22(2):117-22. doi: 10.1177/1553350614560272.
- Halvax P, **Diana M**, Lègner A, Lindner V, Liu YY, Nagao Y, Cho S, **Marescaux J**, Swanström LL. Endoluminal full-thickness suture repair of gastrotomy: a survival study. *Surg Endosc.* 2015 Jan 29
- **Diana M**, Swanström LL, Halvax P, Lègner A, Liu YY, Alzaga A, D'Urso A, **Marescaux J**. Esophageal covered stent fixation using an endoscopic over-the-scope clip. Mechanical proof of the concept and first clinical experience. *Surg Endosc.* 2015 Jan 29
- **Diana M**, Agnus V, Halvax P, Liu YY, Dallemande B, Schlagowski AI, Geny B, Diemunsch P, Lindner V, **Marescaux J**. Intraoperative fluorescence-based enhanced reality laparoscopic real-time imaging to assess bowel perfusion at the anastomotic site in an experimental model. *Br J Surg.* 2015 Jan;102 (2):e169-76. doi: 10.1002/bjs.9725
- **Diana M, Marescaux J**. Robotic surgery. *Br J Surg.* 2015 Jan;102(2):e15-28. doi: 10.1002/bjs.9711

- **Marescaux J, Diana M.**
Next step in minimally invasive surgery: hybrid image-guided surgery. *J Pediatr Surg.* 2015 Jan;50(1):30-36.
- **Diana M, Pop R, Beaujeux R, Dallemagne B, Halvax P, Schlagowski I, Liu YY, Diemunsch P, Geny B, Lindner V, Marescaux J.**
Embolization of Arterial Gastric Supply in Obesity (EMBARGO): an Endovascular Approach in the Management of Morbid Obesity. Proof of the Concept in the Porcine Model. *Obes Surg.* 2014 Dec 16.
- **Liu YY, Diana M, Halvax P, Cho S, Léchner A, Alzaga A, Swanström L, Dallemagne B, Marescaux J.**
Flexible endoscopic single-incision extraperitoneal implant and fixation of peritoneal dialysis catheter: proof of concept in the porcine model. *Surg Endosc.* 2014 Nov 21.
- **Marescaux J, Diana M.**
Inventing the Future of Surgery. *World J Surg.* 2014 Nov 21.
- **Pessaux P, Diana M, Soler L, Piardi T, Mutter D, Marescaux J.**
Towards cybernetic surgery: robotic and augmented reality-assisted liver segmentectomy. *Langenbecks Arch Surg.* 2014 Nov 13.
- **Marescaux J, Diana M, Soler L.**
Application of a Three-Dimensional Print of a Liver in Hepatectomy for Small Tumors Invisible by Intraoperative Ultrasonography: Preliminary Experience. *World J Surg.* 2014 Oct 16
- **Diana M, Halvax P, Pop R, Schlagowski I, Bour G, Liu YY, Legner A, Diemunsch P, Geny B, Dallemagne B, Beaujeux R, Demartines N, Marescaux J.**
Gastric Supply Manipulation to Modulate Ghrelin Production and Enhance Vascularization to the Cardia: Proof of the Concept in a Porcine Model. *Surg Innov.* 2014 Oct 7
- **Diana M, Callari C, D'Agostino J, Wu HS, Mutter D, Marescaux J.**
Laparoscopic Tension-free Abdominal Wall Repair: Impact of Mesh Size and of Different Fixation Devices in a Consecutive Series of 120 Patients. *Surg Laparosc Endosc Percutan Tech.* 2014 Oct;24(5):461-4.
- **Cha R, Marescaux J, Diana M.**
Updates on gastric electrical stimulation to treat obesity: Systematic review and future perspectives. *World J Gastrointest Endosc.* 2014 Sep 16;6(9):419-31. doi: 10.4253/wjge.v6.i9.419.
- **Diana M, Dallemagne B, Chung H, Nagao Y, Halvax P, Agnus V, Soler L, Lindner V, Demartines N, Diemunsch P, Geny B, Swanström L, Marescaux J.**
Probe-based confocal laser endomicroscopy and fluorescence-based enhanced reality for real-time assessment of intestinal microcirculation in a porcine model of sigmoid ischemia. *Surg Endosc.* 2014 Jun 17
- **Diana M, Halvax P, Dallemagne B, Nagao Y, Diemunsch P, Charles AL, Agnus V, Soler L, Demartines N, Lindner V, Geny B, Marescaux J.**
Real-time navigation by fluorescence-based enhanced reality for precise estimation of future anastomotic site in digestive surgery. *Surg Endosc.* 2014 Jun 10
- **Vix M, Diana M, Marx L, Callari C, Wu HS, Perretta S, Mutter D, Marescaux J.**

Management of Staple Line Leaks After Sleeve Gastrectomy in a Consecutive Series of 378 Patients.
Surg Laparosc Endosc Percutan Tech 2014 Apr 19

- Pessaix P, **Diana M**, Soler L, Piardi T, Mutter D, **Marescaux J**.
Robotic duodenopancreatectomy assisted with augmented reality and real-time fluorescence guidance.
Surg Endosc 2014 Mar 8
- Nagao Y, **Diana M**, Vix M, D'Urso A, Mutter D, **Marescaux J**.
Age impact on weight loss and glycolipid profile after laparoscopic sleeve gastrectomy: experience with 308 consecutive patients. Surg Endosc. 2014 Mar;28(3):803-10
- **Diana M**, Mutter D, Lindner V, Vix M, Chung H, Demartines N, **Marescaux J**.
A modular magnetic anastomotic device for minimally invasive digestive anastomosis: proof of concept and preliminary data in the pig model. Surg Endosc. 2014 Jan 3
- Vix M, Liu KH, **Diana M**, D'Urso A, Mutter D, **Marescaux J**.
Impact of Roux-en-Y gastric bypass versus sleeve gastrectomy on vitamin D metabolism: short-term results from a prospective randomized clinical trial. Surg Endosc. 2013 Nov 7.
- **Diana M**, Pessaix P, **Marescaux J**.
New technologies for single-site robotic surgery in hepato-biliary-pancreatic surgery.
J Hepatobiliary Pancreat Sci. 2013 Sep 30
- Marzano E, Piardi T, Soler L, **Diana M**, Mutter D, **Marescaux J**, Pessaix P.
Augmented Reality-Guided Artery-First Pancreatico-Duodenectomy. *J Gastrointest Surg* 2013 Aug 14
- Seeliger B, Callari C, **Diana M**, Mutter D, Marescaux J
Polypoid Gallbladder Lesion in the Context of Renal Cell Carcinoma: Is Laparoscopic Cholecystectomy a Reasonable Option? *Journal of Investigative Medicine High Impact Case Reports July-September 2013* 1: 2324709613499008, first published on July 23, 2013
- Liu KH, **Diana M**, Vix M, Mutter D, Wu HS, Marescaux J.
Revisonal surgery after failed adjustable gastric banding: institutional experience with 90 consecutive cases. *Surg Endosc.* 2013 Jul 9
- Wall J, **Diana M**, Leroy J, Deruijter V, Gonzales KD, Lindner V, Harrison M, Marescaux J
MAGNAMOSIS IV: magnetic compression anastomosis for minimally invasive colorectal surgery.
Endoscopy 2013 Jun 27
- **Diana M**, Chung H, Liu KH, Dallemagne B, Demartines N, Mutter D, Marescaux J
Endoluminal surgical triangulation: overcoming challenges of colonic endoscopic submucosal dissections using a novel flexible endoscopic surgical platform. Feasibility study in a porcine model
Surg Endosc. 2013 Jun 21
- D'Agostino J, **Diana M**, Vix M, Nicolau S, Soler L, Bourhala K, Hassler S, Wu HS, Marescaux J
Three-Dimensional Metabolic and Radiologic Gathered Evaluation Using VR-RENDER Fusion: A Novel Tool to Enhance Accuracy in the Localization of Parathyroid Adenomas. *World J Surg.* 2013 Apr 5

- **Diana M**, Noll E, Diemunsch P, Dallemagne B, Benahmed MA, Agnus V, Soler L, Barry B, Namer IJ, Demartines N, Charles AL, Geny B, Marescaux J. Enhanced-Reality Video Fluorescence: A Real-Time Assessment of Intestinal Viability. *Ann Surg*. 2013 Mar 25
- Vix M, **Diana M**, Liu KH, D'Urso A, Mutter D, Wu HS, Marescaux J. Evolution of Glycolipid Profile After Sleeve Gastrectomy vs. Roux-en-Y Gastric Bypass: Results of a Prospective Randomized Clinical Trial. *Obes Surg*. 2013 May;23(5):613-21
- D'Agostino J, **Diana M**, Vix M, Soler L, Marescaux J. Virtual Neck Exploration prior to Parathyroidectomy. *N Engl J Med* 2012 13 Sep; 367;11
- Leroy J, **Diana M**, Barry B, Mutter D, Melani AG, Wu HS, Marescaux J. Perirectal Oncologic Gateway to Retroperitoneal Endoscopic Single-Site Surgery (PROGRESSS): A Feasibility Study for a New NOTES Approach in a Swine Model. *Surg Innov*. 2012 Jul 1.
- **Diana M**, Leroy J, Wall J, De Ruijter V, Lindner V, Dhumane P, Mutter D, Marescaux J. Prospective experimental study of transrectal viscerotomy closure using transanal endoscopic suture vs. circular stapler: a step toward NOTES. *Endoscopy* 2012 Jun;44(6):605-11
- Wall J, Perretta S, **Diana M**, Dhumane P, Haro JI, Dallemagne B, Becmeur F, Krummel T, Marescaux J. Submucosal Endoscopic Myotomies for Esophageal Lengthening: A Novel Minimally Invasive Technique with Feasibility Study. *Eur J Pediatr Surg* 2012 May 10
- Leroy J, **Diana M**, Callari C, Barry B, D'Agostino J, Wu J, Marescaux J. Laparoscopic extraperitoneal colostomy in elective abdomino-perineal resection for cancer. A single surgeon experience. *Colorectal Dis*. 2012 Mar 5
- Marescaux J, **Diana M** Chirurgie : les grandes mutations *La Revue du Praticien Médecine Générale*, 2011 dec;25 n°871 ([Article in French](#))
- Costantino FA, **Diana M**, Wall J, Leroy J, Mutter D, Marescaux J Prospective evaluation of peritoneal fluid contamination following transabdominal vs. transanal specimen extraction in laparoscopic left-sided colorectal resections. *Surg Endosc* 2011 Dec 17
- Leroy JL, Perretta S, **Diana M**, Wall J, Lindner V, Harrison M, Marescaux J An Original Endoluminal Magnetic Anastomotic Device Allowing Pure NOTES Transgastric and Transrectal Sigmoidectomy in a Porcine Model: Proof of Concept. *Surg Innov* 2011 Dec 4
- **Diana M**, Wall J, Costantino F, D'agostino J, Leroy J, Marescaux J Transanal extraction of the specimen during laparoscopic colectomy. *Colorectal Dis* 2011 Nov;13 Suppl 7:23-7
- Mutter D, Callari C, **Diana M**, Bencheikh L, Heibel F, Marescaux J A novel technique to treat hydrothorax in peritoneal dialysis: laparoscopic hepato-diaphragmatic adhesion. *Perit Dial Int*. 2011 Nov-Dec; 31(6):692-4.
- Callari C, Perretta S, **Diana M**, Dagostino J, Dallemagne B, Marescaux J Thoracoscopic management of chylothorax after esophagectomy. *Surg Endosc* 2011 Nov 15
- **Diana M**, Wall J, Perretta S, Dallemagne B, Gonzales KD, Harrison MR, Agnus V, Soler L, Nicolau S,

Marescaux J Totally Endoscopic Magnetic Enteral Bypass by External Guided Rendez-Vous Technique. *Surg Innov* 2011 Jul 7.

- Sojod G, **Diana M**, Wall J, D'Agostino J, Mutter D, Marescaux J Successful extracorporeal membrane oxygenation treatment for pheochromocytoma-induced acute cardiac failure. *Am J Emerg Med* 2011 Jul 7.
- Leroy J, **Diana M**, Perretta S, Wall J, De Ruijter V, Marescaux J Original technique to close the transrectal viscerotomy access in a NOTES transrectal and transgastric segmental colectomy. *Surg Innov* 2011 Sep;18(3):193-200. Epub 2011 Jul 3.
- Leroy J, **Diana M**, Wall J, Costantino F, D'Agostino J, Marescaux J Laparo-endoscopic single-site (LESS) with transanal natural orifice specimen extraction (NOSE) sigmoidectomy: a new step before pure colorectal natural orifices transluminal endoscopic surgery (NOTES®). *J Gastrointest Surg* 2011 Aug;15(8):1488-92. Epub 2011 May 17
- **Diana M**, Perretta S, Wall J, Costantino FA, Leroy J, Demartines N, Marescaux J Transvaginal specimen extraction in colorectal surgery: current state of the art. *Colorectal Dis* 2011 Jun;13(6):e104-11
- Umale S, Chatelin S, Bourdet N, Deck C, **Diana M**, Dhumane P, Soler L, Marescaux J, Willinger R Experimental in vitro mechanical characterization of porcine Glisson's capsule and hepatic veins. *J Biomech* 2011 Jun 3;44(9):1678-83.
- **Diana M**, Dhumane P, Cahill RA, Mortensen N, Leroy J, Marescaux J Minimal invasive single-site surgery in colorectal procedures: Current state of the art. *J Minim Access Surg* 2011 Jan;7(1):52-60.
- Dhumane PW, **Diana M**, Leroy J, Marescaux J Minimally invasive single-site surgery for the digestive system: A technological review. *J Minim Access Surg* 2011 Jan;7(1):40-51
- Mutter D, Callari C, **Diana M**, Dallemagne B, Leroy J, Marescaux J Single port laparoscopic cholecystectomy: which technique, which surgeon, for which patient? A study of the implementation in a teaching hospital. *J Hepatobiliary Pancreat Sci* 2011 May;18(3):453-7.
- Hübner M, **Diana M**, Zanetti G, Eisenring MC, Demartines N, Troillet N Surgical site infections in colon surgery: the patient, the procedure, the hospital, and the surgeon. *Arch Surg* 2011 Nov;146(11):1240-5. Epub 2011 Jul 18
- **Diana M**, Hübner M, Vuilleumier H, Bize P, Denys A, Demartines N, Schäfer M Redistribution of gastric blood flow by embolization of gastric arteries before esophagectomy. *Ann Thorac Surg* 2011 May;91(5):1546-51. Epub 2011 Mar 21.
- **Diana M**, Hübner M, Eisenring MC, Zanetti G, Troillet N, Demartines N Measures to prevent surgical site infections: what surgeons (should) do. *World J Surg* 2011 Feb;35(2):280-8
- **Diana M**, Paroz A, Demartines N, Schäfer M Retroperitoneal abscess with concomitant hepatic portal venous gas and rectal perforation: a rare triad of complications of acute appendicitis. A case report. *World J Emerg Surg* 2010 Jan 28;5:3
- Garbin O, Hummel M, **Diana M**, Wattiez A Solitary fibrous tumor of the great omentum. *J Minim*

Invasive Gynecol 2011; 18(6):694-5.

- Forgione A, Capristo E, Miele L, **Diana M**, Mingrone G, Greco AV, Grieco A, Gasbarrini G. Serum Leptine and nutritional status in Non-alcoholic steato-hepatitis. *Ann Int Med* 2003 nov.; 18 suppl. 2,95S
- Piccillo GA, Mondati EGM, Miele L, **Diana M**, Gasbarrini G. About a case of celiac disease associated with microvillus inclusion disease. *Ann Int Med* 2003 nov.; 18 suppl 2, 102S
- Miele L, Capristo E, Forgione A, Vero V, **Diana M**, Mingrone G, Greco AV, Grieco A, Gasbarrini G. Body composition and nutrient utilisation in patients with non-alcoholic steato-hepatitis (NASH) *Digestive and liver disease* 2004 mar.; 36 suppl,2,S164
- Miele L, Valenza V, **Diana M**, Perotti G, Cammarota G, Montalto M, Gabrieli L, Forgione A, Vero V, Mascianà R, Di Giuda D, Gasbarrini G, Grieco A. Intestinal permeability assessed by radiolabelled 51 Cr-EDTA in non-alcoholic fatty liver disease (NAFLD) *Digestive and liver disease* 2004 mar; 36 suppl. 2,S284

Book chapters

- **Michele Diana**, Vincent Agnus and Jacques Marescaux **Real-time assessment of intestinal perfusion by Fluorescence-based Enhanced Reality.** Chapter 31 in: *Concepts and Applications of Fluorescence Imaging for Surgeons*. Editors Fernando Dip, Takeaki Ishizawa, Norihiro Kokudo, Raoul Rosenthal. Publisher: Springer International Publishing Switzerland 2015
- **Michele Diana** and Jacques Marescaux **New technology in thyroid and parathyroid surgery** in *Textbook of Endocrine Surgery 3rd Edition*. Editors Orlo H. Clark and Quan-Yang Duh (*in press*)
- **Michele Diana** and Silvana Perretta **Laparoscopic and Single-Incision Sleeve Gastrectomy.** Chapter 29 in: *Mastery of Endoscopic and Laparoscopic Surgery 4th Edition*. Editors Nathaniel Soper and Lee Swanstrom. Publisher: Wolters Kluwer Health: Lippincott Williams and Wilkins 2014.
- Joel Leroy, **Michele Diana**, James Wall & Jacques Marescaux **NOTES® applications in colorectal surgery.** In *Atlas Textbook in NOTES®* by R Zorron & J Marescaux
- Michel Vix, James Wall, **Michele Diana & Jacques Marescaux** **NOTES® applications in bariatric surgery.** In *Atlas Textbook in NOTES®* by R Zorron & J Marescaux
- Bernard Dallemagne, Silvana Perretta, and **Michele Diana** **Transgastric Access in Scar-Less Surgery, NOTES, Transumbilical, and Others** by Rane, A.; Cadeddu, J.A.; Desai, M.M.; Gill, I.S. (Eds.) 2012, 2012, XIV
- Jacques Marescaux & **Michele Diana**

Robotic applications in Gastro Intestinal Surgery in Robotic Surgery: applications and advances by Duc Le Hong Chapter n3 Publisher Future Medicine 2013

- Jacques Marescaux & **Michele Diana**

Robotic and remote surgery what's next? In *Robotics in General Surgery* by Keith Chae Kim (Ed); chapter n37; pp 479-484; Publisher Springer Science + Business Media New York 2014

- Jacques Marescaux & **Michele Diana**

From Multiport Laparoscopic Surgery to Single Port Laparoscopic Surgery in G. Pignata et al. (eds.), Single-Access Laparoscopic Surgery,

DOI 10.1007/978-3-319-06929-6_1, © Springer International Publishing Switzerland 2014

Teaching Experience

- Faculty at the mini-pig surgery Course for the French license to animal experimentation (IRCAD/EITS, Strasbourg, 26-28 april 2010)
- Faculty at the Natural Orifices Transluminal Endoscopic Surgery course (IRCAD/EITS, Strasbourg, 28-29 may 2010)
- Faculty at the Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg, 5-9 july 2010)
- Faculty at the Metabolic Surgery Course (IRCAD/EITS, Strasbourg, 17-18 september 2010)
- Faculty at the Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg, 20-25 september 2010)
- Faculty at the Natural Orifices Transluminal Endoscopic Surgery course (IRCAD/EITS, Strasbourg, 1-2 Oct 2010)
- Faculty at the Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg, 7-11 February 2011)
- Faculty at the Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg, 7-11 March 2011)
- Faculty at the Laparoscopic Digestive Surgery Course (IRCAD/EITS, Strasbourg 14-16 April 2011)
- Faculty at the Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg 16-20 May 2011)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD/EITS, Strasbourg 27-28 May 2011)
- Faculty at the Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg 4-8 July 2011)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 19-23 Sep 2011)
- Faculty at the mini-pig surgery Course for the French license to animal experimentation (IRCAD/EITS, Strasbourg, 26 Sep 2011)
- Faculty at the Advanced Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 31 Oct-3 Nov 2011)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD/EITS, Strasbourg 14-16 Nov 2011)
- Faculty at the General Surgery Course (IRCAD/EITS, Strasbourg 21-25 Nov 2011)
- Faculty at the Metabolic Surgery Course (IRCAD/EITS, Strasbourg 6-7 Dec 2011)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 13-17 Feb 2012)
- Faculty at the Metabolic Surgery Course (IRCAD/AITS, Taiwan, 23-24 Feb 2012)
- Faculty at the Advanced Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 13-16 Mar 2012)
- Faculty at the surgery Course for scrub nurses (IRCAD/EITS, Strasbourg 19 Mar 2012)
- Faculty at the mini-pig surgery Course for the French licence to animal experimentation (IRCAD/EITS, Strasbourg, 16-18 april 2012)
- Faculty at the Advanced Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 19-21 April 2012)

- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 21-25 May 2012)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD/EITS, Strasbourg 1-2 June 2012)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 24-26 September 2012)
- Faculty at the Laparoscopic Surgery and New Technology Course (IRCAD-EITS, Strasbourg 15 October 2012)
- Faculty at the Advanced Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 25-26 October 2012)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD/EITS, Strasbourg 16-17 November 2012)
- Faculty at the Metabolic Surgery Course (IRCAD/EITS, Strasbourg 7-8 December 2012)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 4-8 February 2013)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 11-15 March 2013)
- Faculty at the Hepatobiliary Surgery Course (IRCAD/EITS, Strasbourg 4-6 April 2013)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 13-17 May 2013)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD/EITS, Strasbourg 7-8 June 2013)
- Faculty at the BEST (Business Engineering Surgical Technology) Course (IRCAD, Strasbourg, August 2013)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 22-26 September 2013)
- Faculty at the surgery Course for scrub nurses (IRCAD/EITS, Strasbourg 14 October 2013)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD/EITS, Strasbourg Nov 2013)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 24-28 january 2014)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 12-16 may 2014)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD/EITS, Strasbourg 11-13 june 2014)
- Faculty at the Masterclass in Hepatobiliary Surgery (IHU-Strasbourg 16-18 june 2014)
- Faculty at the Hepatobiliary Surgery Course (IRCAD/EITS Strasbourg 19-20 june 2014)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS Strasbourg 30th june- 4th july 2014)
- Faculty at the BEST (Business Engineering Surgical Technology) Course (IRCAD, Strasbourg, 7-12 july 2014)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg, 15-19 September 2014)
- Faculty at the Digestive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg, 22-25 october 2014)
- Faculty at the Masterclass in Hepatobiliary Surgery (IHU-Strasbourg 1-3 december 2014)
- Faculty at the Bariatric Surgery Course (IRCAD, Strasbourg 4-6 december 2014)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD, Strasbourg 13-15 november 2014)
- Faculty at the Laparoscopic General Surgery Intensive Course (IRCAD, Strasbourg 17-21 november 2014)
- Faculty at the University Diploma of Robotic Surgery (**Nancy**, 28 November 2014)
- Faculty at the Laparoscopic General Surgery Intensive Course (IRCAD, Strasbourg, 26-30 january 2015)

- Faculty at the University Diploma of Robotic Surgery (**Strasbourg IHU**, 19 March 2015)
- Faculty at the Laparoscopic General Surgery Intensive Course (IRCAD, Strasbourg 18-22 mai 2015)
- Faculty at the Laparoscopic Colorectal Surgery Course (IRCAD, Strasbourg, 18-19 june 2015)
- Faculty at the Laparoscopic General Surgery Intensive Course (IRCAD, Strasbourg 29 june-3 july 2015)
- Faculty at the BEST (Business Engineering Surgical Technology) Course (IRCAD, Strasbourg, August 2015)
- Faculty at the Laparoscopic General Surgery Intensive Course (IRCAD, Strasbourg 21-25 September 2015)
- Faculty at the Hands-on Anesthesiology and Reanimation Course (IRCAD, Strasbourg, 25-26 September 2015)
- Faculty at the Laparoscopic Digestive Surgery Course (IRCAD, Strasbourg 15-17 October 2015)
- Faculty at the Masterclass in Hepatobiliary Surgery (IHU-Strasbourg 29-30 October 2015)
- Faculty at the Laparoscopic Colorectal Surgery Course 6-7 nov 2015
- Faculty at the Gen Surg Course 16-20 Novembre 2015
- Faculty at the University Diploma of Robotic Surgery (Nancy, 2015)
- Faculty at the Master 2 in Surgical Sciences Technology Innovations (Paris, Kremlin Bicêtre, 16.03.2016)
- Faculty at the mini-pig surgery Course for the French license to animal experimentation (IRCAD/EITS Strasbourg, April 2016)
- Faculty at the Colorectal Surgery Course (IRCAD/EITS, Strasbourg 18-21 May 2016)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 23-27 May 2016)
- Faculty at the Masterclass in Hepatobiliary Surgery (IHU-Strasbourg 20-22 May 2016)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 4-7 July 2016)
- Faculty at the University Diploma in Surgical Endoscopy (IHU-Strasbourg 11-13 July 2016)
- Faculty at the BEST (Business Engineering Surgical Technology) Course (IRCAD, Strasbourg, August 2016)
- Faculty at the Intensive Laparoscopic Surgery Course (IRCAD/EITS, Strasbourg 12-16 September 2016)
- Faculty at the Hepatobiliary Surgery Course (IRCAD/EITS, Strasbourg 21-24 September 2016)

MD Thesis supervisor:

1) Dr Luigi Schiraldi

Thesis title:

Functional Capillary Density for in Vivo Estimation of Intestinal Perfusion using Real-Time Confocal Endomicroscopy
 Schiraldi, et al., J Cytol Histol 2015, 6:4 <http://dx.doi.org/10.4172/2157-7099.1000334> (Open access)

Post-Graduate Courses

- Basic course in laparoscopic techniques (Geneva 9 mars 2006)
- Basic course on proctology (Geneva, 5-9 February 2007)
- **Advanced Trauma Life Support (ATLS®) course** (Geneva, 7-9 may 2007)
- Basic course in laparoscopic techniques (Lausanne, 14-16 may 2007)
- Advanced course in laparoscopic surgery (Timisoara, 20-22 juin 2007)
- Basic Science Writing Course (Zurich, 4-6 December 2008)
- 26th international Gastrointestinal Surgery Workshop (Davos 28 February-6 mars 2009)
- Laparoscopic Digestive Surgery Course (IRCAD/EITS, Strasbourg, 22-24 april 2010)
- Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg, 17-21 may 2010)
- Colorectal Surgery Course (IRCAD/EITS, Strasbourg, 25-26 june 2010)
- Upper GI endoscopic techniques Course (IRCAD/EITS, Strasbourg, 28-29 june 2010)
- Single Port Surgery Course (IRCAD/EITS, Strasbourg, 1-2 july 2010)
- Laparoscopic digestive surgery course (IRCAD/EITS, Strasbourg, 27-30 Oct 2010)
- Single Port Surgery Course (IRCAD/EITS, Strasbourg, 5 Nov 2010)
- Colorectal Surgery Course (IRCAD/EITS, Strasbourg, 19-20 Nov 2010)
- Laparoscopic General Surgery Course (IRCAD/EITS, Strasbourg 22-23 and 25-26 Nov 2010)
- daVinci® Surgical System Off-Site Training Program for a Console Surgeon (IRCAD/EITS, Strasbourg, 24 Nov 2010)
- Minimal Invasive Endocrine Surgery Course (IRCAD/EITS, Strasbourg 23-25 June 2011)
- Single Port and NOTES Course (IRCAD/EITS, Strasbourg 29 Sep-1 Oct 2011)
- Flexible Endoscopy and Hybrid Endo-Laparoscopic Surgery (IRCAD/EITS) Strasbourg 19-20 October 2012)
- Advanced course of Surgical Endoscopy (IRCAD/EITS, Strasbourg, 19-20 November 2012)
- Hands-on-course in **Micro-surgery** (Surgery School Fer à Moulin, Paris, September 2014)
- Workshop on Molecular Guided Surgery (New York, September 2016)
- 8th Convention of Health Analysis and Management (Chamonix, 30 September 2016)

Professional Memberships

Active memberships

- **2016** Value-based Healthcare French Circle
- **2015** Society for Medical Innovation and Technology (ISMIT)
 - Member of the Steering Committee (2016)
- **2015** Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)
- **2015** European Association of Endoscopic Surgeons (EAES)
 - Member of the Technology Committee (2016)
- **2013 Founder member** of the International Society for Fluorescence Guided Surgery
- **2013** International Society for Computer Aided Surgery (ISCAS)
- **2004** Italian College of Physicians and Surgeons

Past memberships

- **2013-2014** Academy of Surgical Research (ASR)
- **2012-2014** Swiss Society of Biomedical Engineering (SSBE)
- **2010-2014** Association for Academic Surgery and Perioperative Medicine (AASPM)
- **2010-2014** International Society of Surgery (ISS/SIC)
- **2009-2014** Swiss Society of Surgery (SSC)
- **2006-2014** Swiss College of Physicians (Foederatio Medicorum Helveticorum (FMH))

Editorial activities

- Associate Editor and Co-founder of the Journal of Fluorescence-Guided Surgery
- Reviewer for the several journals, including:
 - 1) Surgical Innovation
 - 2) Surgical Endoscopy
 - 3) Journal of Pediatric Surgery
 - 4) Gastroenterology
 - 5) International Journal of Computer Assisted Radiology and Surgery

Patents

- 1) Modular Magnetic Anastomotic Device**
- 2) Applicators for Modular Magnetic Anastomotic Device**
- 3) Implantable vibrating system to counteract gastric pacemaker**
- 4) System to detect anastomotic leaks based on NO detection**

Conferences: Posters or Oral Presentations

2016

- Invited Speaker at the Third International Conference on Fluorescence Guided Surgery (during the 15th Foregut Symposium of Cleveland Clinic) Boca Raton Convention Center, Florida (**February 4, 2016**)

Presentation title

- 1) Why should we use near-infrared guidance?**
- 2) Alternative routes of administration of Indocyanine Green**

- Invited Speaker at Surgical Horizons Seminar Series at Harvard Medical School, Boston, Massachusetts (**February 8, 2016**)

Presentation title

Perspectives on Surgical Guidance Using Near-Infrared Light

- Invited Speaker and Chairman at SPIE PHOTONICS, Moscone Center San Francisco February 14 2016

Presentation title

Fluorescence-based Enhanced Reality to assess bowel perfusion

- Society of American Gastrointestinal Endoscopic Surgeons (SAGES), Boston, Massachusetts, USA (**March 16-18, 2016**)

Poster presentation title

Superselective intra-arterial hepatic injection of Indocyanine Green (ICG) for fluorescence image-guided segmental positive staining: experimental proof of the concept.

Michele Diana^{1, 2}, MD, PhD*; Yu-Yin Liu^{1, 3}, MD*; Raoul Pop⁴, MD; Seong-Ho Kong^{2, 5}, MD, PhD; Andras Legnér², MD; Remy Beaujeux⁴, MD, PhD; Patrick Pessaux⁶, MD, PhD; Luc Soler^{1, 2}, PhD; Didier Mutter⁶, MD, PhD, FACS; Bernard Dallemande¹, MD; Jacques Marescaux^{1, 2}, MD, FACS, (Hon) FRCS, (Hon) FJSES, (Hon) APSA.

Oral presentation title

Robust Augmented Reality registration method for Localization of Solid Organs' Tumors Using CT-derived Virtual Biomechanical Model and Fluorescent Fiducials

Seong-Ho Kong (IHU & Seoul National University Hospital); Nazim Haouchine (INRIA & IHU); Renato Soares (IHU); Bruno Marques (INRIA and IHU); Michele Diana (IHU & IRCAD); Galyna Shabat (IRCAD); Bohdan Andreiuk (Faculté de Pharmacie, Université de Strasbourg); Andrey Klymchenko (Faculté de Pharmacie, Université de Strasbourg); Thierry Piechaud (Clinique Saint-Augustin, Bordeaux), Stephane Cotin (INRIA Mimesis & IHU); Jacques Marescaux (IRCAD & IHU)

- Invited Speaker at the Innovation Club of the French Association of Hepatobiliary Pancreatic Surgery and Transplantation: “Open brain and fresh air in surgery” (**June 3-5, 2016**)

Presentation title

The use of light in surgery

- Keynote speaker at the conference on “Simulation in the training of medical professions”. University “Gabriele D’Annunzio”, Chieti, Italy (**June 13, 2016**)

Presentation title:

THE CYBERSURGERY

- **European Association of Endoscopic Surgeons (EAES), Amsterdam, The Netherlands, (15-18 June 2016)**

Chairman and organizer of the session on FLUORESCENCE-GUIDED SURGERY

Oral Presentations

Presentation of the EURO-FIGS REGISTRY (A web-based registry powered by the IHU-SPECTRA unit) dedicated to the collection of patients operated using Fluorescence guidance across Europe.

Precision real-time evaluation of bowel perfusion. Accuracy of confocal endomicroscopy assessment of stoma in a controlled hemorrhagic shock model

Michele Diana^{1, 3, 4}, MD, PhD Eric Noll^{2, 3}, MD; Anne-Laure Charles³, PhD; Pierre Diemunsch^{2, 3}, MD, PhD; Bernard Geny³, MD, PhD; Yu-Yin Liu^{4, 5}, MD; Francesco Marchegiani⁴, MD; Luigi Schiraldi⁴, MD; Vincent Agnus⁴, PhD; Veronique Lindner⁶, MD, PhD; Lee Swanström¹, MD, FACS; Bernard Dallemagne⁴, MD; Jacques Marescaux^{1, 4}, MD, FACS, (Hon) FRCS, (Hon) FJSES, (Hon) APSA.

Precision computer-assisted Barrett Esophagus follow-up. Relocalization of previous biopsy sites with electromagnetic tracking and time-machine patient-specific video archive

Stephane Nicolau¹ PhD, **Michele Diana^{1, 2} MD, PhD** Adrien Sportes³ MD, Michel Delvaux³ MD, Luc Soler¹ PhD, Anant Vemuri¹ PhD, Jacques Marescaux^{1, 2} MD, FACS, (Hon) FRCS, (Hon) FJSES, (Hon) APSA

Impact of valve-less vs. standard insufflation on pneumoperitoneum volume, inflammation and peritoneal physiology in a laparoscopic sigmoid resection experimental model

Michele Diana^{1, 2, 4} MD, PhD; Eric Noll³ MD, Andras Legnèr² MD, Seong-Ho Kong² MD, Yu-Yin Liu¹ MD, Luigi Schiraldi¹ MD, Francesco Marchegiani¹ MD, Bernard Geny⁴ MD, PhD, Anne-Laure Charles⁴ PhD, Bernard Dallemagne¹ MD, Véronique Lindner⁵ MD, PhD, Pierre Diemunsch³ MD, PhD, Jacques Marescaux^{1, 2} MD, FACS, (Hon) FRCS, (Hon) FJSES, (Hon) APSA

Augmented Reality computer-assisted navigation in hybrid interventional therapies: transparency visualization of patient-specific virtual organs motion during breathing using real-time skin tracking.

Hostettler Alexandre¹ PhD, Stephane Nicolau¹ PhD, Michele Diana^{1, 2} MD, Luc Soler¹ PhD, Jacques Marescaux^{1, 2} MD, FACS, (Hon) FRCS, (Hon) FJSES, (Hon) APSA

3D MRI Topography of the Nerves at Risk during Pelvic Visceral Surgery

AR Wijsmuller, C Giraudeau, GJ Kleinrensink, E Rociu, M Diana, J Leroy, J Marescaux, D Mutter

- **Keynote Speaker at the Sociedad Iberico-Americana de Intervencionismo 8-9 September 2016, Zaragoza**

Presentation title: “Bariatric Embolization”

- **French Association of Surgery (AFC), annual meeting, Paris 28.09.2016**

Presentation title: “Fluorescence-guided surgery: The cybernetic eye for precision surgery”

2015

- Invited Speaker at the Second International Conference on Fluorescence Guided Surgery (during the 14th Foregut Symposium of Cleveland Clinic) Biltmore Hotel, Coral Gables Miami, Florida (**February 14-16, 2015**)

Presentation title:

1) FLUORESCENCE ENHANCED REALITY TO ASSESS ANASTOMOTIC PERFUSION

2) FLUORESCENCE-BASED AUGMENTED REALITY INTRA-OPERATIVE CHOLANGIOGRAPHY: RESULTS OF A PROSPECTIVE CLINICAL TRIAL

- Society of American Gastrointestinal Endoscopic Surgeons (SAGES), Nashville, Tennessee, USA (**April 15-18, 2015**)

Presentation title:

HIGH INTENSITY FOCUSED ULTRASOUND (HIFU) FOR SUBMUCOSAL GASTROINTESTINAL TISSUE ABLATION.

- European Association of Endoscopic Surgeons (EAES), Bucharest, Romania (**3-6 June 2015**)

Presentations title:

1) INTRAOPERATIVE IMMUNOHISTOCHEMISTRY: TISSUE-SPECIFIC FLUORESCENT PROBES FOR REAL-TIME SENTINEL NODE EVALUATION USING CONFOCAL ENDOMICROSCOPY.

2) NOVEL LAPAROSCOPIC NARROW BANDING IMAGING FOR REAL-TIME DETECTION OF BILE LEAK DURING HEPATECTOMY. PROOF OF THE CONCEPT IN A PORCINE MODEL.

- Keynote speaker at the meeting of the Ukrainian Society of Surgical Oncology, Kiev, Ukraine (**11 June 2015**)

Presentations title:

HYBRID NAVIGATION IN SURGERY

- Keynote speaker at the iMed 7.0 Lisbon, Portugal (**18 September 2015**)

Presentations title:

MINIMALLY INVASIVE SURGERY 2.0

- Keynote speaker at the Conference of the Italian Society of Colorectal Surgery, Treviso, Italy (**5 October 2015**)

Presentations title:

NEXT STEPS IN MINIMALLY INVASIVE SURGERY: HYBRID IMAGE-GUIDED SURGERY

2014

- Invited Speaker at the First World Conference on Fluorescence Guided Surgery (during the 13th Foregut Symposium of Cleveland Clinic) Biltmore Hotel, Coral Gables Miami Florida February 15-16, 2014
- Society of American Gastrointestinal Endoscopic Surgeons (SAGES), April 2-5, 2014 Salt Lake City, Utah, USA

REAL-TIME NAVIGATION BY FLUORESCENCE-BASED ENHANCED REALITY FOR PRECISE ESTIMATION OF FUTURE ANASTOMOTIC SITE IN DIGESTIVE SURGERY.

Diana M, Halvax P, Dallemande B, Nagao Y, Diemunsch P, Charles AL, Agnus V, Soler L, Demartines N, Lindner V, Geny B, Marescaux J.

PROBE-BASED CONFOCAL LASER ENDOMICROSCOPY AND FLUORESCENCE-BASED ENHANCED REALITY FOR REAL-TIME ASSESSMENT OF INTESTINAL MICROCIRCULATION IN A PORCINE MODEL OF SIGMOID ISCHEMIA.

Diana M, Dallemande B, Chung H, Nagao Y, Halvax P, Agnus V, Soler L, Lindner V, Demartines N, Diemunsch P, Geny B, Swanström L, Marescaux J

- European Association of Endoscopic Surgeons (EAES), June Paris 2014

ENDOSCOPIC FULL THICKNESS SUTURING WITH AN ENDOSCOPIC SUTURING DEVICE ON PORCINE SIGMOID COLON

P. Halvax, L. Swanström, M. Diana, S. Perretta, A. Legner, Y.Y. Liu, S. Cho, A. Alzaga, J. Marescaux

ENDOLUMINAL FULL-THICKNESS SUTURE REPAIR OF GASTROTOMY: A SURVIVAL STUDY

P. Halvax; LL. Swanström; M. Diana; S. Perretta; S. Cho; YY. Liu; Y. Nagao; J. Marescaux

- Academy for Surgical Research, Minneapolis 18-21 September 2014

IMPROVING ECHO-GUIDED PROCEDURES USING A 4D ULTRASOUND WITH IMAGE FUSION SYSTEM

Michele Diana, Peter Halvax; Damien Mertz, Andras Legner, Jean-Marcel Brulé, Eric Robinet, Didier Mutter, Patrick Pessaux; Jacques Marescaux

- UEGW Vienna, 18-22 October 2014

ESOPHAGEAL COVERED STENT FIXATION USING AN ENDOSCOPIC OVER-THE-SCOPE CLIP. MECHANICAL PROOF OF THE CONCEPT AND FIRST CLINICAL EXPERIENCE.

Diana M, Swanström LL, Halvax P, Lègner A, Liu YY, Alzaga A, D'Urso A, Marescaux J.

2013

- Society of American Gastrointestinal Endoscopic Surgeons (SAGES) April 16 –20, 2013 Baltimore, MD, USA

AGE INFLUENCE ON WEIGHT LOSS AND GLYCOL-LIPID PROFILE AFTER LAPAROSCOPIC SLEEVE GASTRECTOMY: EXPERIENCE WITH 308 CONSECUTIVE PATIENTS.

Yoshi Nagao, MD, PhD; **Michele Diana**, MD; Michel Vix, MD; Antonio D'Urso, MD; Didier Mutter, MD, PhD, FACS; Jacques Marescaux, MD, (Hon) FRCS, FACS, (Hon) FJSES

- **REVISIONAL SURGERY AFTER FAILED ADJUSTABLE GASTRIC BANDING: INSTITUTIONAL EXPERIENCE WITH 90 CONSECUTIVE CASES.**

Keng-Hao Liu^{1,2}, MD, **Michele Diana**¹, MD, Michel Vix¹, MD, Didier Mutter¹, MD, PhD, FACS; Jacques Marescaux¹, MD, FACS, (Hon) FRCS, (Hon) FJSES

International Anaesthesia Research Society (IARS)

May 5 –8, 2013 San Diego, CA, USA

- **INSTANT CAPILLARY LACTATES TO EVALUATE BOWEL ISCHEMIA: PROOF OF CONCEPT IN A PORCINE MODEL**

Michele Diana¹⁻³ MD; Eric Noll² MD; Pierre Diemunsch² MD, PhD; Peter Halvax¹ MD; Bernard Dallemande¹ MD; Nicolas Demartines³ MD, FACS; Jacques Marescaux¹ MD, FACS, (Hon) FRCS, (Hon) FJSES

- **OXYGRAPHIC ASSESSMENT OF MITOCHONDRIA RESPIRATORY RATE KINETICS IN A PORCINE MODEL OF SMALL BOWEL ISCHEMIA**

Michele Diana¹⁻⁴ MD; Anne-Laure Charles³ MD, PhD; Yoshihiro Nagao¹ MD; Hyunsoo Chung¹ MD; Bernard Geny³ MD, PhD; Nicolas Demartines⁴ MD, FACS, FRCS; Jacques Marescaux¹ MD, FACS, (Hon) FRCS, (Hon) FJSES

Swiss Society of Surgery annual meeting 12 June, 2013 Berne Switzerland

- **INSTANT CAPILLARY LACTATES TO EVALUATE BOWEL ISCHEMIA: PROOF OF CONCEPT IN A PORCINE MODEL**

Michele Diana¹⁻³ MD; Eric Noll² MD; Pierre Diemunsch² MD, PhD; Peter Halvax¹ MD; Bernard Dallemande¹ MD; Nicolas Demartines³ MD, FACS; Jacques Marescaux¹ MD, FACS,

(Hon) FRCS, (Hon) FJSES

European Association for Endoscopic Surgery (EAES) 19-22 June , 2013 Vienna, Austria

- **ENDOLUMINAL SURGICAL TRIANGULATION: OVERCOMING CHALLENGES OF COLONIC ENDOSCOPIC SUBMUCOSAL DISSECTIONS USING A NOVEL FLEXIBLE ENDOSCOPIC SURGICAL PLATFORM. FEASIBILITY STUDY IN A PORCINE MODEL (WITH VIDEO).**
Michele Diana¹⁻² MD; Hyunsoo Chung¹ MD; Keng-Hao Liu¹ MD; Bernard Dallemagne¹ MD; Didier Mutter¹ MD, PhD, FACS; Nicolas Demartines² MD, FACS, FRCS; Jacques Marescaux¹ MD, FACS, (Hon) FRCS, (Hon) FJSES
- **IRON METABOLISM AFTER ROUX-EN-Y GASTRIC BYPASS OR SLEEVE GASTRECTOMY. RESULTS FROM A PROSPECTIVE RANDOMIZED CLINICAL TRIAL.**
 Michel Vix, MD; Antonio D'Urso, MD; Michele Diana, MD; Keng-Hao Liu, MD; Didier Mutter, MD, PhD, FACS; Jacques Marescaux MD, FACS, (Hon) FRCS, (Hon) FJSES
- **A MODULAR MAGNETIC ANASTOMOTIC DEVICE FOR MINIMALLY INVASIVE DIGESTIVE ANASTOMOSIS. PROOF OF CONCEPT AND PRELIMINARY DATA IN THE PIG MODEL.**
Michele Diana¹⁻³ MD; Didier Mutter¹ MD, PhD; FACS, Véronique Lindner² MD, PhD; Hyunsoo Chung¹ MD; Nicolas Demartines³ MD, FACS, FRCS; Jacques Marescaux¹ MD, FACS, (Hon) FRCS, (Hon) FJSES.
- **IMPACT OF ROUX-EN Y GASTRIC BYPASS VS. SLEEVE GASTRECTOMY ON VITAMIN D METABOLISM: SHORT TERM RESULTS FROM A PROSPECTIVE RANDOMIZED CLINICAL TRIAL**
 Michel Vix¹ MD; Keng-Hao Liu¹ MD; Michele Diana¹ MD; Antonio D'Urso¹ MD; Didier Mutter¹ MD, PhD, FACS; Hurng-Sheng Wu² MD; Jacques Marescaux¹ MD, FACS, (Hon) FRCS, (Hon) JSES
- **FEASIBILITY AND RELIABILITY OF PANCREATIC CANCER STAGING USING A NEW CONFOCAL NON FLUORESCENCE MICROSCOPY PROBE: A DOUBLE BLIND STUDY IN RATS**
V.E. De Ruijter, S. Perretta, B. Dallemagne, M. Aprahamian, M. Ignat, V. Lindner, M. Diana, J. Marescaux, France
Computer Assisted Radiology and Surgery (CARS) 26-29 June , 2013 Heidelberg, Germany
- **AUTOMATED AUGMENTED REALITY FOR LAPAROSCOPIC SURGERY**
 Nicolau S, Diana M, Agnus V, Soler L, Marescaux J

2012

Society of American Gastrointestinal Endoscopic Surgeons (SAGES)
March 7 – 10, 2012 San Diego Convention Center, CA, USA

- **MANAGEMENT OF STAPLE LINE LEAKS AFTER SLEEVE GASTRECTOMY IN A**

CONSECUTIVE SERIES OF 378 PATIENTS

Michel Vix; **Michele Diana**; Ludovic Marx; Cosimo Callari; Jacopo D'Agostino; Gianfranco Donatelli; Silvana Perretta; Hurng-Sheng Wu; Didier Mutter; Jacques Marescaux

- **GLOBALIZATION OF UNDERGRADUATE SURGICAL EDUCATION: A UNIQUE EDUCATIONAL EXPERIENCE AT THE IRCAD FRANCE**

Vivian De Ruijter; **Michele Diana**; Silvana Perretta; Luc Soler; James Wall; Susana Maia; Joël Leroy; Thomas Parent; Didier Mutter; Bernard Dallemande, Jacques Marescaux

Swiss Society of Biomedical Engineering Annual meeting (SSBE)

27-28 August Lausanne, Federal Polytechnic School, Switzerland

- **FLUORESCENCE BASED AUGMENTED REALITY TO ASSESS INTESTINAL PERFUSION**

Michele Diana; Eric Noll; Diemunch Pierre; Bernard Dallemande; Malika A. Benahmed; Vincent Agnus; Luc Soler; Brian Barry; Izzie Jacques Namer; Nicolas Demartines; Anne-Laure Charles; Bernard Geny; Jacques Marescaux

Austrian Single Incision Symposium, Salzburg 27-29 September (guest speaker)

- **Keynote lecture on: Technical Innovations in Minimally Invasive Surgery**

UEGW Amsterdam October 20-24

- **A NOVEL STEERABLE GRASPER TO FACILITATE GASTRIC ENDOSCOPIC SUBMUCOSAL DISSECTION (ESD): A RANDOMIZED COMPARATIVE STUDY IN A PORCINE MODEL.**

Hyunsoo Chung MD; **Michele Diana MD**; Keng-Hao Liu MD; Theodoros Katsichtis MD; Bernard Dallemande MD; Jacques Marescaux MD, FACS, (Hon) FRCS, (Hon) JSES

2011

Society of American Gastrointestinal Endoscopic Surgeons (SAGES)

March 30 - April 2, 2011 San Antonio Convention Center, San Antonio, TX

- **PROSPECTIVE EVALUATION OF PERITONEAL FLUID CONTAMINATION FOLLOWING TRANSABDOMINAL VS. TRANSAURAL SPECIMEN EXTRACTION IN LAPAROSCOPIC LEFT-SIDED COLORECTAL RESECTIONS**

Federico A. Costantino, **Michele Diana**, Joel Leroy, Didier Mutter, Jacques Marescaux

IEEE International Conference on Robotics and Automation (ICRA 2011) Shanghai, Chine, May 2011

- **GYROLOCK – FIRST IN VIVO EXPERIMENTS OF ACTIVE HEART STABILIZATION USING CONTROL MOMENT GYRO (CMG)**

J. Gagne, O. Piccin, E. Laroche, **M. Diana**, J. Gangloff

UEGW 2011 Stockholm, 20-25 October

- **TRANSRECTAL VISCIROTOMY CLOSURE USING TRANSAURAL ENDOSCOPIC**

SUTURE VS. CIRCULAR STAPLER: A STEP TOWARD NOTES®

Michele Diana, Joël Leroy, James Wall, Vivian DeRuijters, Veronique Lindner, Jacques Marescaux

- **MAGNAMOSIS IV: MAGNETIC COMPRESSION ANASTOMOSIS FOR MINIMALLY INVASIVE COLORECTAL SURGERY**

J. Wall, **M. Diana**, J. Leroy, V. DeRuijter, KD. Gonzales, V. Lindner, M. Harrison, J. Marescaux

21st EECMID 7-10 May Milan

- **THE SURGEON AS AN INDEPENDENT RISK FACTOR FOR SURGICAL SITE INFECTIONS**

Martin Hübner, MD,* **Michele Diana, MD**,* Giorgio Zanetti, MD, MSc,† Marie-Christine Eisenring, RN, CIC,‡ Nicolas Demartines, MD,* and Nicolas Troillet, MD, MSc,†‡

2010

Swiss Society of Hospital Hygiene 2-4 Sept 2010 Lausanne

- **THE SURGEONS' IMPACT ON SURGICAL SITE INFECTIONS IN COLON SURGERY. WHAT SURGEONS (SHOULD) DO.**

Michele Diana¹, Martin Hübner¹, Marie-Christine Eisenring², Giorgio Zanetti³, Nicolas Troillet^{2,3} Nicolas Demartines¹

Swiss Society of Surgery annual meeting Interlaken 2010

- **MEASURES TO PREVENT SURGICAL SITE INFECTIONS**

Michele Diana, Martin Hübner¹, Marie-Christine Eisenring², Giorgio Zanetti³, Nicolas Troillet^{2,3} Nicolas Demartines¹

- **IMPACT OF PREOPERATIVE ARTERIAL EMBOLIZATION ON ANASTOMOTIC LEAKAGE AND OVERALL COMPLICATIONS AFTER ESOPHAGEAL RESECTION.**

M Diana, M Hübner, P. Bize*, H. Vuilleumier, M Schäfer, N. Demartines

UEGW 2010 Barcelona

- **IMPACT OF PREOPERATIVE ARTERIAL EMBOLIZATION ON ANASTOMOTIC LEAKAGE AND OVERALL COMPLICATIONS AFTER ESOPHAGEAL RESECTION.**

M Diana, M Hübner, P. Bize*, H. Vuilleumier, M Schäfer, N. Demartines

Surgical Innovations Conference, November 13, 2010, Bastrop, Texas.

- **TOTALLY ENDOSCOPIC MAGNETIC ENTERAL BYPASS BY EXTERNAL GUIDED RENDEZ-VOUS TECHNIQUE**

Michele Diana, James Wall, Silvana Perretta, Bernard Dallemagne, Kelly D. Gonzales, Michael R. Harrison, Vincent Agnus, Luc Soler, Stephan Nicolau, Jacques Marescaux.

- **3° Congress of the European chapter of the American College of nutrition, Gottingen November 2003**

Miele L, Forgione A, Hernandez Ap, Caminiti G, Capristo E, Vero V, Gabrieli L, **Diana M**, Rapaccini GL, Grieco A, Gasbarrini G.

Prevalence of essential hypertension and metabolic syndrome in “lean” NAFDL patients.

Languages

- Italian (native)
- English (expert)
- French (expert)

Awards & Grants

- European Association of Endoscopic Surgeons (EAES) 2016 Research Grant (50k)
- Research Grant Feasibility Study IHU: EMBARGO 2.0 (50k)
- Research Grant MILTA TECHNOLOGIES (15k)
- Research Grant (30k €) to develop Fluorescence-based Augmented Reality applied to the digestive system (KarlStorz®, Tuttlingen, Germany)
- Research Grant Feasibility Study IHU-Strasbourg: EMBARGO (50k€)
- Research Grant Feasibility Study IHU-Strasbourg: FURTHER (50k€)
- Research Grant Feasibility Study IHU-Strasbourg: GAMMA (50k€)
- Finalist as best medical abstract at the IEEE International Conference on Robotics and Automation ICRA 2011, Shanghai, China (9-13 mai 2011)
- UEGW travel grant 2014 Vienna
- UEGW travel grant 2011 Stockholm
- EECMID travel grant 2011 Milan
- Best innovation paper award EAES 2013 Vienna